

FIG. 1A

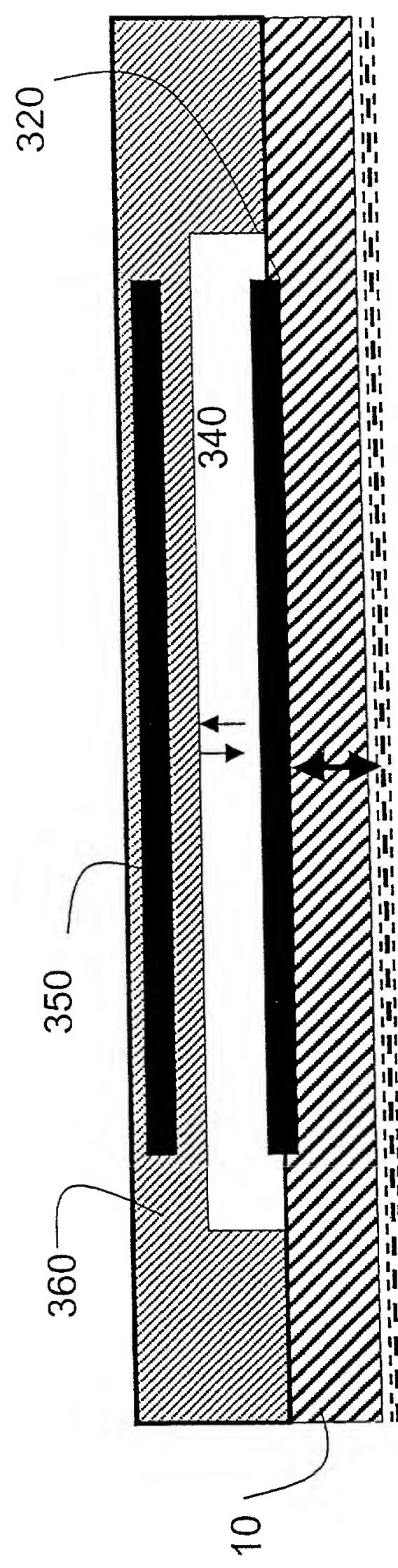


FIG. 1B

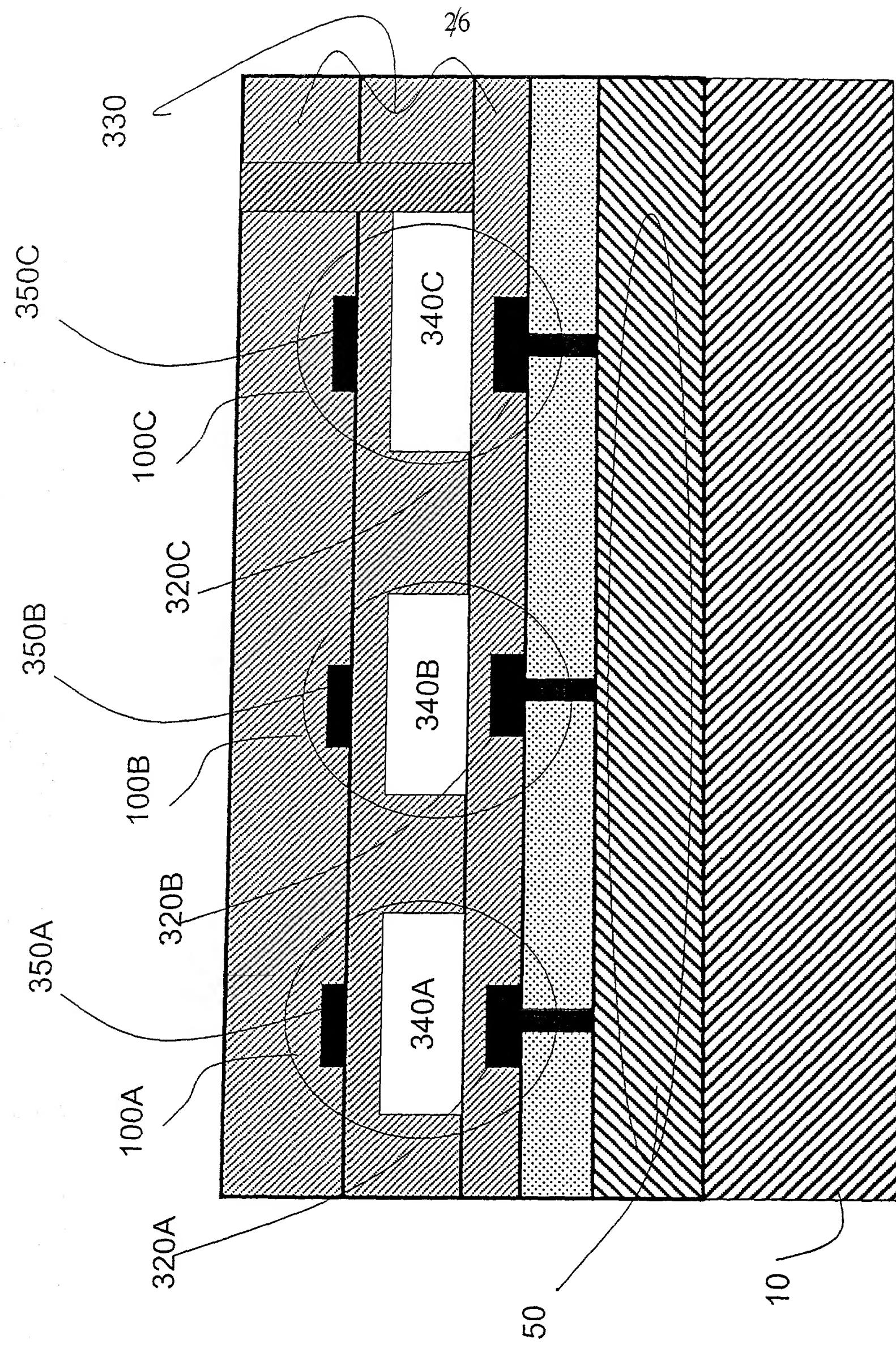


FIG. 2A

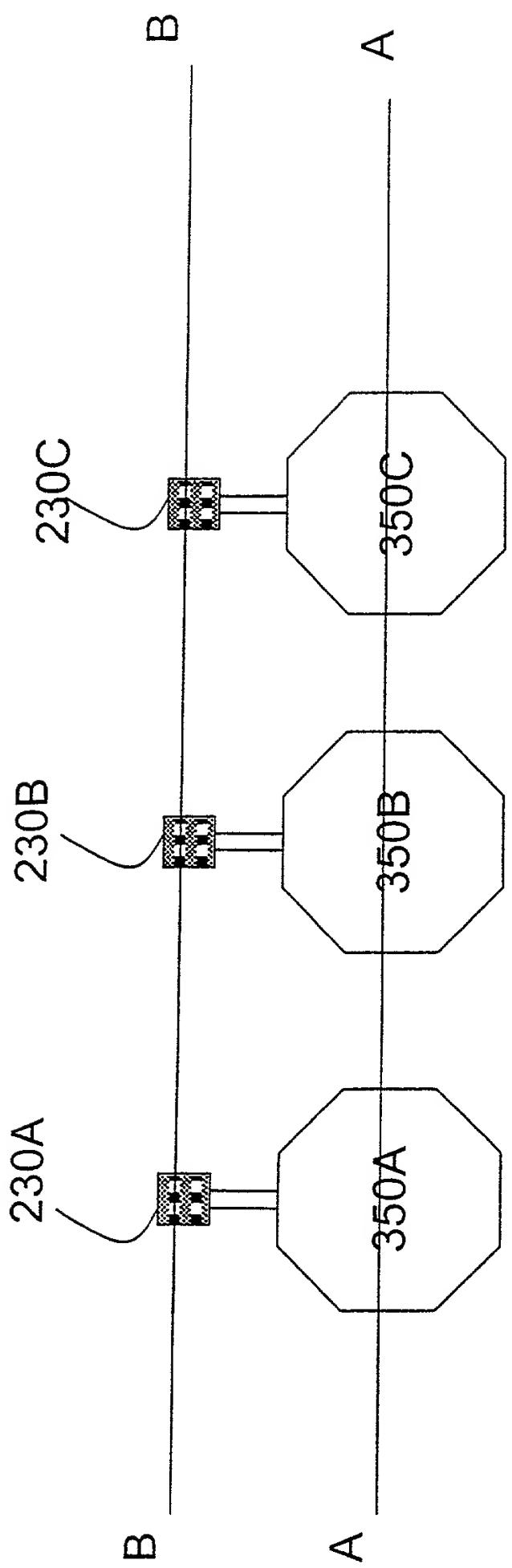


FIG. 2B

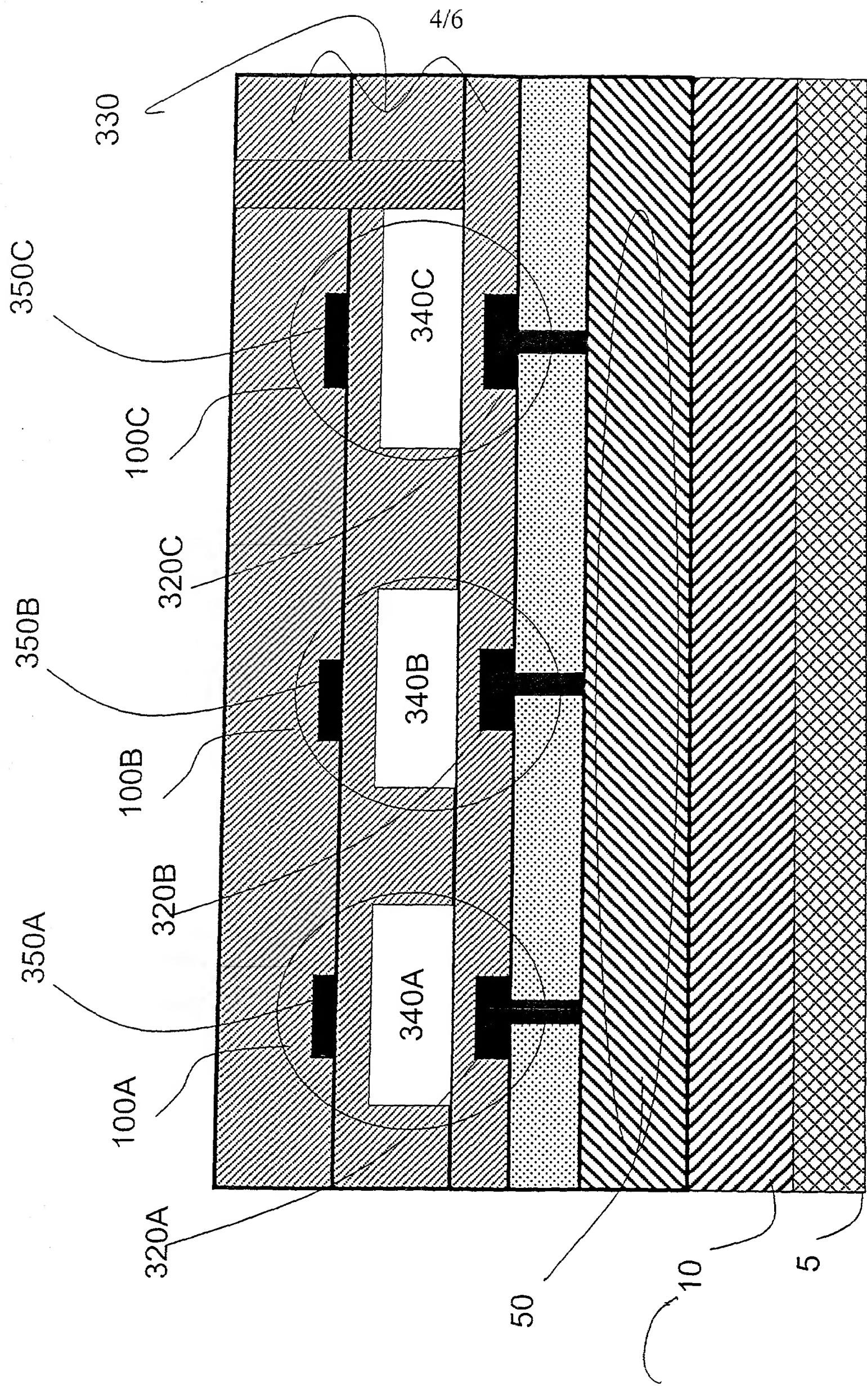


FIG. 3

Transmission Test
(pitch and catch)

Sample 9MHz Immersion Parts → Backing Material Effects

Time Response

V_{bias} = 90V

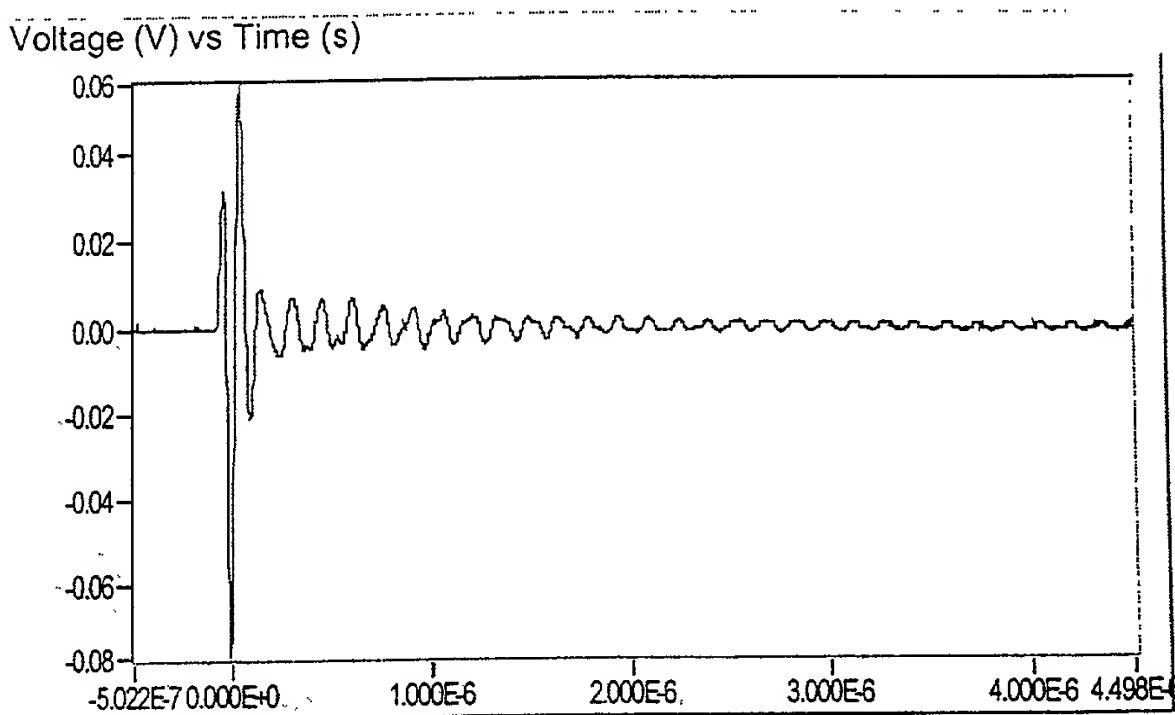
V_{ac} = 10V 30ns pulse

2mm separation

No backing material

Medium = water

FIGURE 4A

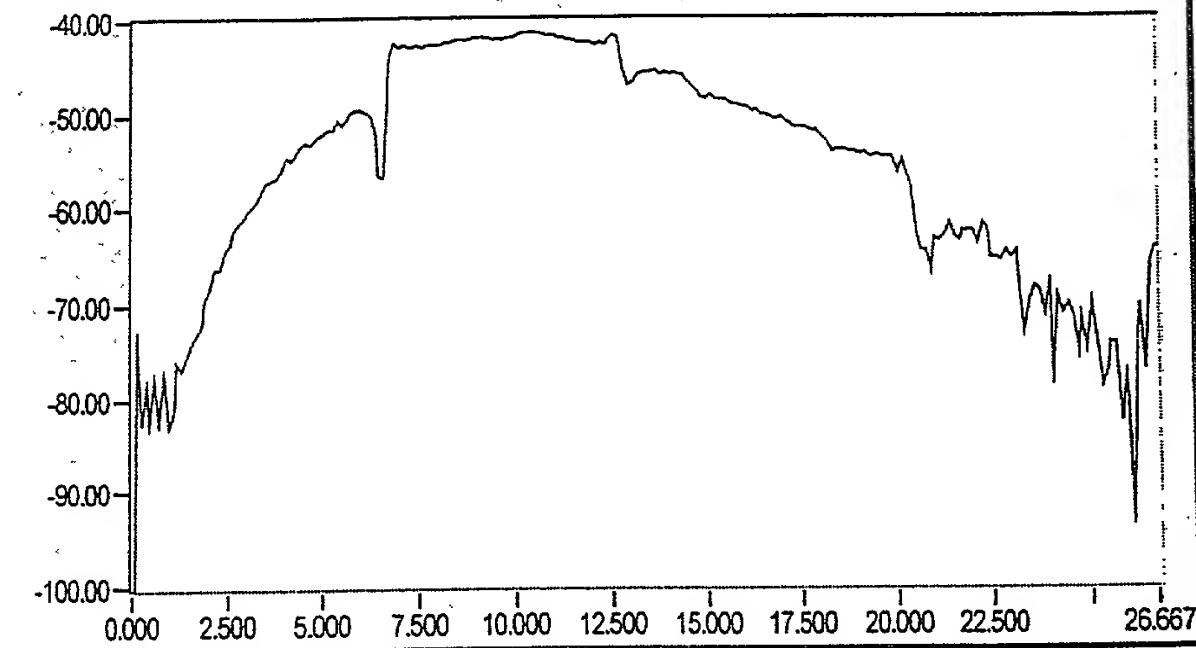


2-way Insertion Loss

-6dB BW = 78.82%

FIGURE 4B

Insertion Loss (dB attenuation) vs Frequency (MHz)

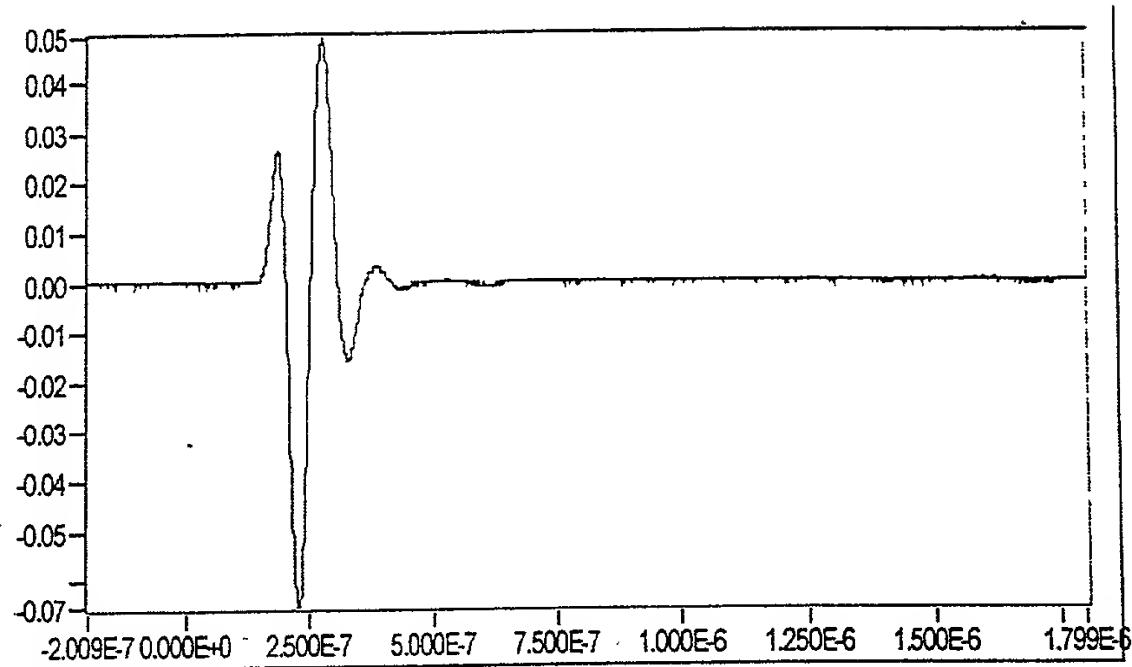


Time Response

Vbias = 90V
 Vac = 10V 30ns pulse
 2mm separation
 With backing material
 Medium = water

FIGURE 4C

Voltage (V) vs Time (s)

**2-way Insertion Loss**

-6dB BW = 84.02%

FIGURE 4D

Insertion Loss (dB attenuation) vs Frequency (MHz)

